

**CASSETTE CAR STEREO
WITH FM/AM ELECTRONIC TUNER**

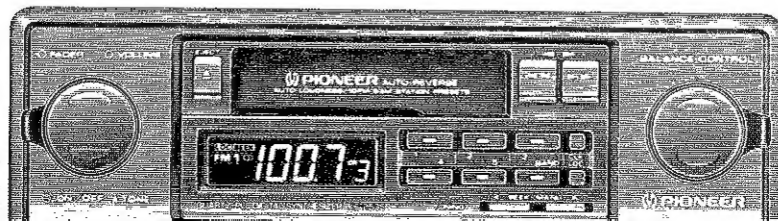
OWNER'S MANUAL

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER. Avant de l'utiliser, prendre soin de lire ce manuel.

Muchas gracias por la adquisición de este producto PIONEER. Antes de tratar de operarlo, les atentamente este manual.

شكرا لك على شرائك جهاز بايونير هذا. قبل محاولة تشغيله تأكد من قراءة هذا الدليل.



KE-2535

Features

- Seek tuning for automatic tuning to the next higher or lower broadcast on the band.
- Preset tuning function for frequency selection at the touch of a button.
- For AM reception, a tuning step is switchable to the other according to the zonal frequency range.
- Auto reverse function eliminates the need to turn the cassette over and allows uninterrupted playback.
- Auto-replay function automatically restarts playback from the beginning of the tape after rewind.
- 4-speaker system creates a full-bodied listening environment.
- Built-in 12-hour format digital clock.

Switching the Tuning Steps

The AM tuning step for this unit can be switched between 9 kHz and 10 kHz. The tuning step is set to 10 kHz upon shipment from the factory. When using in places other than North, Central, and South America, switch to 9 kHz steps.



1. Press the eject button in fully and eject the cassette, then turn the power switch off.
 2. The AM tuning step changes when the band button and preset button 4 are pressed simultaneously and the power switch is turned on. (The frequencies stored in the memory are cleared when this is done.)
- Changing the vehicle's battery sets the tuning steps and frequency range settings to their initial setting.

Specification	Initial Setting	New Setting
---------------	-----------------	-------------

Setting the Time



1. Press the clock switch to switch to the time display.
2. Each press of the left side of the hour/minute control button while holding down the clock switch advances hour display by

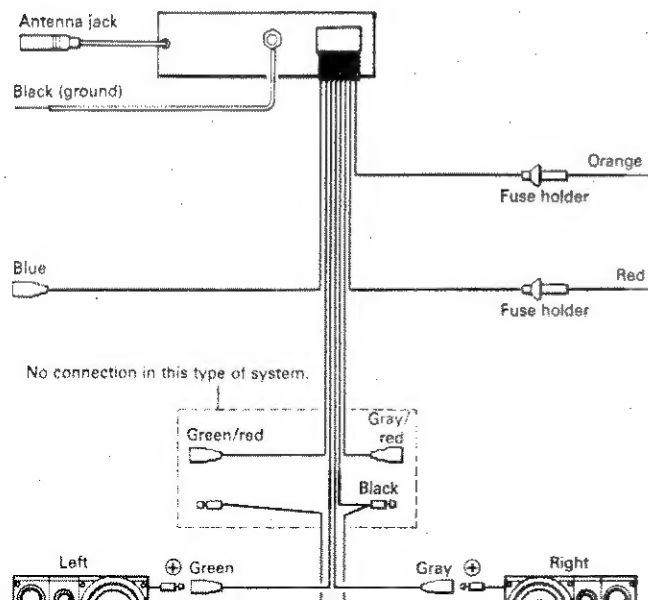
Connections

Note:

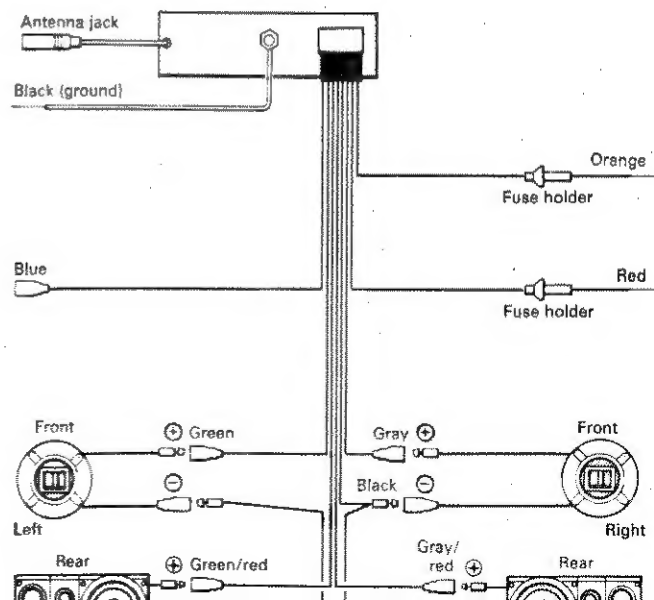
- To avoid shorts in the electrical system, be sure to disconnect the battery \ominus cable before beginning installation.
- Replace fuses only with the types stipulated on the fuse holder.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.
- Cover unused terminals with tape to prevent electrical shorts.
- When the power amp is being linked with this system, be sure not to connect the blue lead to the amp's power terminal. Likewise, when linking this system with the auto-antenna, do not connect to power terminal for the antenna. Such connection can make overcurrent cause malfunctions.

Black (ground)	To vehicle (metal) body.
Blue	If this unit is combined with a power amp, connect its blue lead to the blue lead (system control terminal) of the power amp. If combined with an auto-antenna, connect its blue lead to the relay control terminal of the auto-antenna. (MAX. 300 mA, 12 V DC)
Orange	To terminal always supplied with power regardless of ignition switch position.
Red	To electric terminal controlled by ignition switch (12 V DC) ON/OFF.

2-speaker system



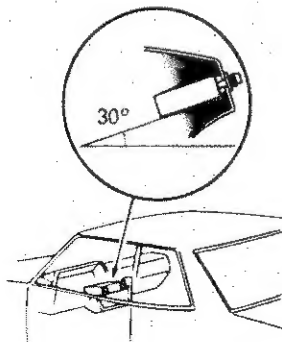
4-speaker system



Installation

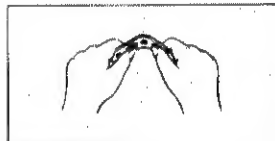
Note:

- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance. (Fig. 1)

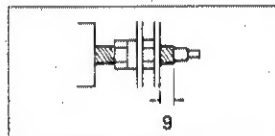


Strap

Be sure to use the strap to secure the back of the unit in place to prevent wow and flutter. The strap can be bent by hand to the desired angle.

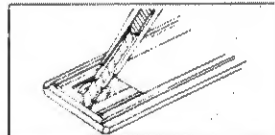


If the shaft extends from the dashboard more than 9 mm, use the supplied nut and washer to adjust the length.



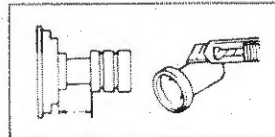
Front panel

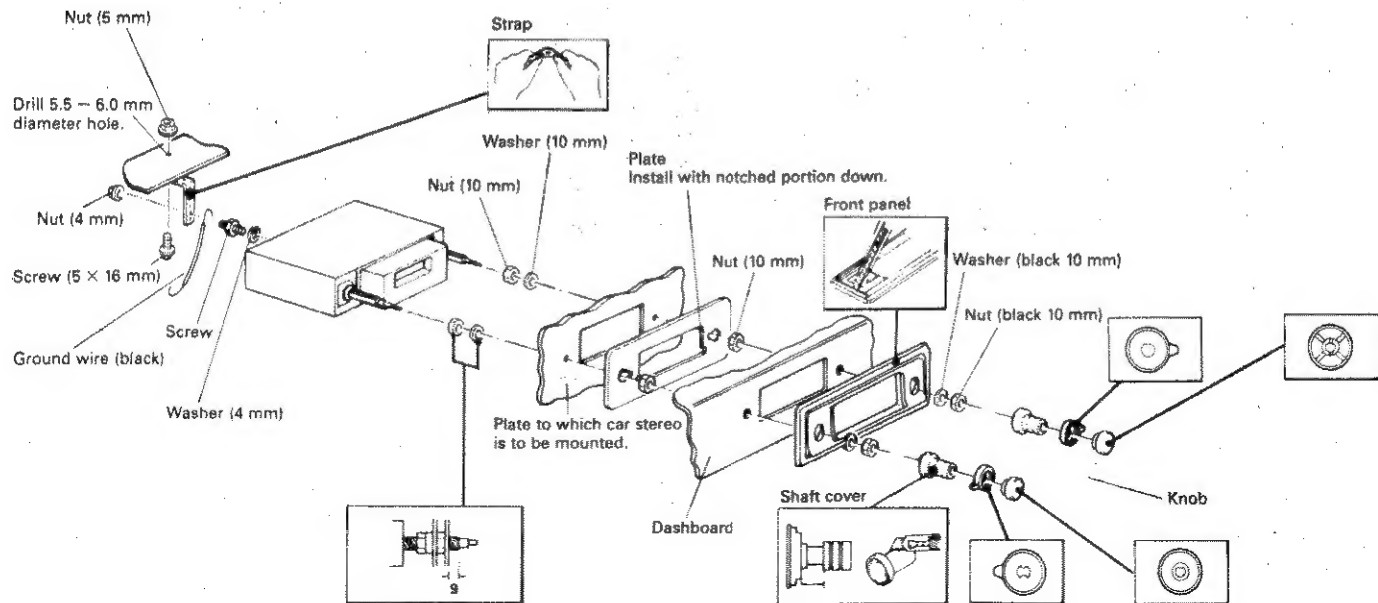
The front panel can be cut along the ridges on the back if it is too large to be installed as furnished.



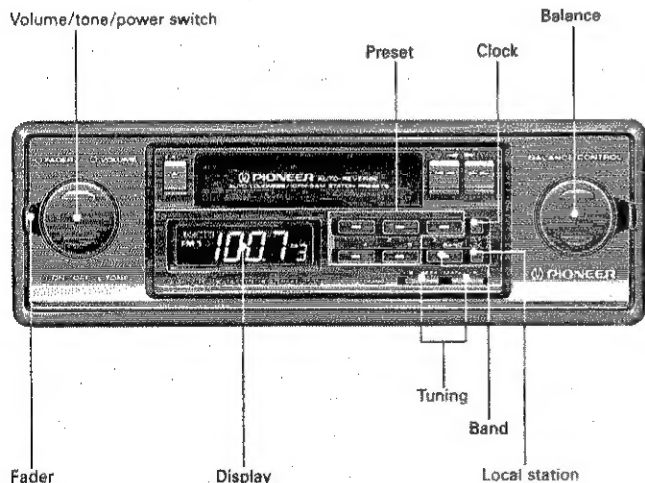
Shaft cover

Cut the shaft cover to the proper size to fill any gap which may occur between the front panel and control knob.





Using the Radio



● Before attempting operation...

- Set the fader control to the left horizontal.
- Since the set is designed preferentially for tape play, eject a cassette tape, if mounted, before operating the radio.

1. Turning the power switch to the right causes power to switch ON and the current frequency to appear on the display.
2. Press the band switch to select the band.
3. Press the left and right tuning buttons simultaneously and the seek tuning indicator will appear on the display.
4. Press either the left or right side of the tuning buttons to tune in the desired frequency. (Pressing the right side will increase the frequency.)
5. Adjust the volume and balance.
6. Adjust the tone to an appropriate level. To adjust the tone, pull the knob toward you and set it to the desired level.

● To enter a frequency into the preset memory...

7. Hold down one of the preset buttons (1-5) for approximately two seconds. The frequency is stored in memory (assigned to the preset button pressed) once the preset number stops flashing on the display.

Five FM1 frequencies, five FM2 frequencies and five AM frequencies can be entered.

● Local Station Switch

Pressing this switch lowers the seek tuning reception sensitivity so that only stronger signals can be tuned in. This feature is convenient when driving through areas that have numerous radio stations.

● Auto-Loudness

When playing back a tape or listening to the radio at low volume, the low tone is automatically emphasized.

● Clock Switch

Each press causes the display to switch between clock and frequency.

● Fader Control

This control is used to adjust the balance between the front and rear speakers when using a 4-speaker system. Turning the control upwards decreases the volume of the rear speakers, while turning it downwards decreases the volume of the front speakers. With 2-speaker systems, set this control to a horizontal position.

Seek Tuning

Press the left and right tuning buttons simultaneously, and tuning to the next higher or lower broadcast on the band can be accomplished automatically by simply pressing either the left or right side of the tuning button. FM frequencies change in 50 kHz steps while those in the AM band change in 10 kHz steps.

- AM frequencies are tuned in 9 kHz steps after the tuning steps are changed.

Preset Tuning

Pressing the preset button instantly tunes in the frequency programmed in the memory for that button.

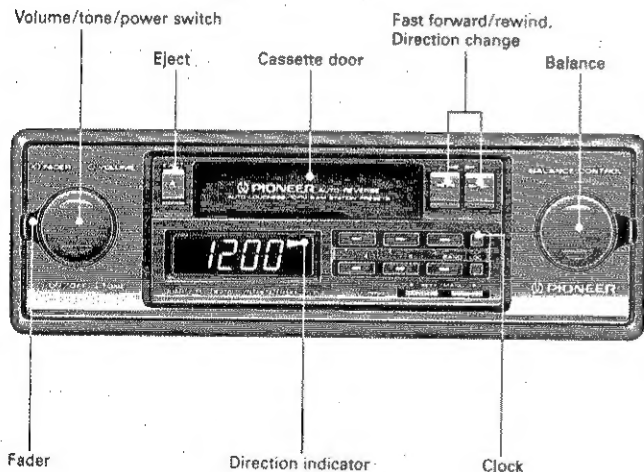
Manual Tuning

When manual tuning is employed, FM frequencies change in 50 kHz steps while AM frequencies change in 10 kHz steps.

- AM frequencies are tuned in 9 kHz steps after the tuning steps are changed.

1. Press the left and right tuning buttons simultaneously and the seek tuning indicator will disappear from the display.
2. Change the frequency by pressing either the left or right side of the tuning button. Pressing the button once will change the frequency one step (see above). Continuously depressing either side of the button will successively change the frequency at the prescribed step.

Using the Tape Deck



● Before attempting operation...

- Set the fader control to the left horizontal.
- 1. Turning the power switch to the right causes power to switch ON.
- 2. Loading a cassette tape into the load slot causes playback to begin automatically.
- 3. Adjust the volume and balance.
- 4. Adjust the tone to an appropriate level. To adjust the tone, pull

- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.
- Be sure to eject the tape when the vehicle's ignition is turned OFF. Leaving the tape in the unit can deform the pinch roller causing wow and flutter during tape playback.
- Loose tapes should be rewound with the aid of a pencil and unevenly wound tapes rewound with the use of the fast forward function.

● Fast Forward/Rewind

Since the transport can be in either direction, both the left and right high-speed tape transport buttons can be regarded as fast forward/rewind buttons.

For fast forward, press the high-speed tape transport button that corresponds to the direction that is shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the opposite side of the tape (Auto-reverse).

For rewind, press the button that is opposite that of the direction shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the beginning of the same side of the tape (Auto-replay).

Fast forward and rewind can be terminated by pressing the respective opposite high-speed tape transport button.

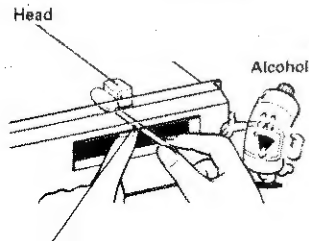
● Change in Tape Direction

To change Side A to B or vice versa, push buttons Fast Forward and Rewind simultaneously.

Care and Maintenance

- Do not use tapes longer than C-90-type (90 min.) cassettes. Longer tapes can interfere with tape transport.
- If the playback head becomes dirty, sound quality will suffer. Periodically (once or twice a month) clean the heads with a cotton swab soaked with alcohol. (Fig. 1)
- Storing cassettes in areas directly exposed to sunlight or high temperatures can distort them and subsequently interfere with tape transport. (Fig. 2)
- Store unused tapes in a tape case where there is no danger of them becoming loose or being exposed to dust.
- Frequencies and times stored in memory can be lost when the vehicle's battery is replaced. If this should occur, reprogram the preset memory.
- **After Service**

In the event this unit does not function properly, contact your dealer or the nearest authorized PIONEER Service Center.



Specifications

General	
Power source	14.4 V DC (10.8 — 15.6 V allowable)
Grounding system	Negative type
Max. current consumption	2.5 A
Dimensions (chassis)	170(W) × 50(H) × 130(D) mm
(nose)	105(W) × 42(H) × 39(D) mm
Shaft interval	147 mm
Weight	1.3 kg
Amplifier	
Maximum power output	8.5 W × 2 / 7 W × 4 (EIAJ)
Continuous power output	4.5 W × 2 (1% dist. at 1 kHz)
Continuous power output is 3.2 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.	
Load impedance	4 Ω (4 — 8 Ω allowable)
Loudness contour	+8 dB (100 Hz) (volume: -30 dB)
Tape player	
Tape	Compact cassette tape (C-30 — C-90)
Tape speed	4.8 cm/sec. (1-7/8 ips.)
Fast forward/rewind time	Approx. 100 sec. for C-60
Wow & flutter	0.13% (WRMS)
Frequency response	50 — 14,000 Hz (±3 dB)
Stereo separation	45 dB
Signal-to-noise ratio	52 dB (IEC-A network)
FM tuner	
Frequency range	87.5 — 108 MHz
Usable sensitivity	15 dBf (1.6 μV/75 Ω, mono)
50 dB quieting sensitivity	20 dBf (2.8 μV/75 Ω, mono)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response	50 — 15,000 Hz (±3 dB)
Stereo separation	35 dB (at 65 dBf, 1 kHz)
AM tuner	
Frequency range	530 — 1,620 kHz (10 kHz)
	531 — 1,602 kHz (9 kHz)
Usable sensitivity	18 μV (25 dB) (S/N: 20 dB)
Selectivity	50 dB (±10 kHz)
	50 dB (±9 kHz)

Note:
Specifications and the design are subject to possible modification without notice due to improvements.